



DIG (Dust, Ice and Gas) Astrochemistry

17-18th November, 2022
(virtual)



新潟大学 量子研究センター
Niigata University, Quantum Research Center

eur PLANET
SOCIETY

DIG-ASTROCHEMISTRY CONFERENCE SCHEDULE

DAY-1 (Thursday)

17.11.2022

Inaugural session	Presenter name	Time					
		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
	Prof. Nigel Mason Prof. Anil Bhardwaj Dr. Debiprosad Duari Prof. Takehiko Asaka	25	15:00-15:25	09:30-09:55	10:30-10:55	03:30-03:55	18:30-18:55

-----BREAK- 5 Min-----

DAY-1 session-I	Chair: Prof. Christine Joblin		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			90	15:30-17:00	10:00-11:30	11:00-12:30	04:00-05:30	19:00-20:30
Looking at the wonders of the molecular universe: Astrochemical observations-I	Presenter name	Abstract Title						
	Dr. Victor Manuel Rivilla	Molecular precursors of the RNA-world in the interstellar medium: the astrochemical mine found in G+0.693-0.027	25	15:30-15:55	10:00-10:25	11:00-11:25	04:00-04:25	19:00-19:25
	Dr. Yao-Lun Yang	Complex Chemistry in Star Formation: The Synergy of ALMA and JWST	25	15:55-16:20	10:25-10:50	11:25-11:50	04:25-04:50	19:25-19:50
	Dr. Laura Colzi	Nitrogen isotopic ratios across the Milky Way	20	16:20-16:40	10:50-11:10	11:50-12:10	04:50-05:10	19:50-20:10
	Dr. Tien-Hao Hsieh	Temperature and kinematic structure of the burst-phase protostar SVS13A using DCN and COMs	20	16:40-17:00	11:10-11:30	12:10-12:30	05:10-05:30	20:10-20:30
-----BREAK-----			20	17:00-17:20	11:30-11:50	12:30-12:50	05:30-05:50	20:30-20:50

DAY-1 session-II	Chair: Prof. Liv Hornekaer		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			89	17:20-18:49	11:50-13:19	12:50-14:19	05:50-07:19	20:50-22:19
Investigate the chemistry of the interstellar medium in the laboratory: Experimental Astrochemistry-I	Presenter name	Abstract Title						
	Dr. Sergio Ioppolo	Laboratory Ice Astrochemistry at Large Scale Facilities	25	17:20-17:45	11:50-12:15	12:50-13:15	05:50-06:15	20:50-21:15
	Prof. Sergio Pilling	Chemical evolution of CO2 ices under processing by ionizing radiation employing the PROCODA code	20	17:45-18:05	12:15-12:35	13:15-13:35	06:15-06:35	21:15-21:35
	Dr. Niels F.W. Ligterink	Cooking with the stars: creating a hot corino soup	20	18:05-18:25	12:35-12:55	13:35-13:55	06:35-06:55	21:35-21:55
	Duncan Mifsud	Towards a better understanding of sulphur radiation chemistry in astrochemical ices	12	18:25-18:37	12:55-13:07	13:55-14:07	6:55-07:07	21:55-22:07
	Gaurav Vishwakarma	Ultraviolet photon-induced trapping of photoproducts in amorphous solid water	12	18:37-18:49	13:07-13:19	14:07-14:19	07:07-07:19	22:07-22:19
-----BREAK-----			36	18:49-19:25	13:19-13:55	14:19-14:55	07:19-07:55	22:19-22:55

DAY-1 session-III	Chair: Prof. Cristina Puzzarini		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			140	19:25-21:45	13:55-16:15	14:55-17:15	07:55-10:15	22:55-01:15
Simulation and modelling the chemistry of the interstellar medium:Theoretical Astrochemistry and modelling-I	Presenter name	Abstract Title						
	Dr. Robin Garrod	New models of hot and cold chemistry in star-forming regions	25	19:25-19:50	13:55-14:20	14:55-15:20	07:55-08:20	22:55-23:20
	Dr. Kenji Furuya	Chemistry and transport of volatiles in protoplanetary disks	25	19:50-20:15	14:20-14:45	15:20-15:45	08:20-08:45	23:20-23:45
	Dr. David Woon	Grain surface ice astrochemistry of MgNC	25	20:15-20:40	14:45-15:10	15:45-16:10	08:45-09:10	23:45-00:10
	Dr. Giacomo Mulas	Computing the ingredients to simulate the photophysics of PAHs in space	20	20:40-21:00	15:10-15:30	16:10-16:30	09:10-09:30	00:10-00:25
	Dr. Gao-Lei Hou	Metallic buckyballs as promising carriers of mysterious unidentified infrared emission bands	15	21:00-21:15	15:30-15:45	16:30-16:45	09:30-09:45	00:25-00:40
	Dr. David Dubois	Modeling Titan's Upper Atmospheric Gas Chemistry at Low Temperature	15	21:15-21:30	15:45-16:00	16:45-17:00	09:45-10:00	00:40-00:55
	Dr. Raghunath Ramabhadran	Metal-Ion Mediation in Interstellar Chemistry	15	21:30-21:45	16:00-16:15	17:00-17:15	10:00-10:15	00:55-01:15
END OF DAY-1								

DAY-2 (Friday) 18.11.2022								
DAY-2 session-I	Chair: Dr. Takashi Shimonishi		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			104	15:00-16:44	09:30-11:14	10:30-12:14	03:30-05:14	18:30-20:14
Looking at the wonders of the molecular universe: Astrochemical observations-II	Presenter name	Abstract Title						
	Dr. Kotomi Taniguchi	Carbon-Chain Chemistry around Massive Young Stellar Objects	25	15:00-15:25	09:30-09:55	10:30-10:55	03:30-03:55	18:30-18:55
	Dr. Dipen Sahu	Density Structure of Centrally Condensed Prestellar Cores from Multiscale Observations	15	15:25-15:40	09:55-10:10	10:55-11:10	03:55-04:10	18:55-19:10
	Dr. Prasanta Gorai	Astrochemical Modeling of Massive Protostellar Core Envelopes	15	15:40-15:55	10:10-10:25	11:10-11:25	04:10-04:25	19:10-19:25
	Álvaro López-Gallifa	Comparative study of the chemical composition of G31.41 with different phases of the star formation	12	15:55-16:07	10:25-10:37	11:25-11:37	04:25-04:37	19:25-19:37
	Andrés Megías	Chemical complexity in starless and pre-stellar cores	12	16:07-16:19	10:37-10:49	11:37-11:49	04:37-04:49	19:37-19:49
	Dr. Kei Tanaka	Massive Protostellar Disks as a Hot Laboratory	25	16:19-16:44	10:49-11:14	11:49-12:14	04:49-05:14	19:49-20:14
-----BREAK-----			16	16:44-17:00	11:14-11:30	12:14-12:30	05:14-05:30	20:14-20:30

DAY-2 session-II	Chair: Dr. Sergio Ioppolo		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			97	17:00-18:37	11:30-13:07	12:30-14:07	05:30-07:07	20:30-22:07
Investigate the chemistry of the interstellar medium in the laboratory: Experimental Astrochemistry-II	Presenter name	Abstract Title						
	Dr. Christine Joblin	Modeling the aromatic infrared bands in the JWST era	25	17:00-17:25	11:30-11:55	12:30-12:55	05:30-05:55	20:30-20:55
	Prof. Liv Hornekaer	Imaging Interstellar Dust Grain Model Surfaces with Atomic Resolution	25	17:25-17:50	11:55-12:20	12:55-13:20	05:55-06:20	20:55-21:20
	Dr. Divita Gupta	High-resolution spectroscopy of astrophysically-relevant hydrocarbon ions	20	17:50-18:10	12:20-12:40	13:20-13:40	06:20-06:40	21:20-21:40
	Barbara Keresztes	H-Atom-Abstraction and H-Atom-Addition Reactions of Fulminic Acid (HCNO) and Formaldoxime (H2CNOH) in Solid para-H2	12	18:10-18:22	12:40-12:52	13:40-13:52	06:40-06:52	21:40-21:52
	Dr. Heidy M. Quitián-Lara	X-Ray Photoinduced Fragmentation of Prebiotic Molecules in Interstellar Clouds: Ethanolamine	15	18:22-18:37	12:52-13:07	13:52-14:07	06:52-07:07	21:52-22:07
-----BREAK-----			23	18:37-19:00	13:07-13:30	14:07-14:30	07:07-07:30	22:07-22:30

DAY-2 session-III	Chair: Dr. Robin Garrod		Duration (min)	IST(+5:30)	GMT(0)	CET(+1)	CST(-6)	JST(+9)
			127	19:00-21:07	13:30-15:37	14:30-16:37	07:30-09:37	22:30-00:37
Simulation and modelling the chemistry of the interstellar medium: Theoretical Astrochemistry and modelling-II	Presenter name	Abstract Title						
	Prof. Eric Herbst	Synthetic Approaches to Complex Organic Molecules in the Cold Interstellar Medium	25	19:00-19:25	13:30-13:55	14:30-14:55	07:30-07:55	22:30-22:55
	Prof. Cristina Puzzarini	Rotational spectroscopy and chemical reactivity in Astrochemistry: experiment and theory	25	19:25-19:50	13:55-14:20	14:55-15:20	07:55-08:20	22:55-23:20
	Dr. Mathias Rapacioli	Large carbonaceous molecules and molecular clusters : Insights from theoretical modelling	20	19:50-20:10	14:20-14:40	15:20-15:40	08:20-08:40	23:20-23:40
	Dr. Maria Murga	Contribution of small hydrocarbons from dust photo-dissociation	15	20:10-20:25	14:40-14:55	15:40-15:55	08:40-08:55	23:40-23:55
	Dr. Amit Pathak	Spectroscopy of Interstellar Aromatics	15	20:25-20:40	14:55-15:10	15:55-16:10	08:55-09:10	23:55-00:10
	Dr. Zhao Wang	Neutral atomic hydrogen as an efficient catalyst for interstellar gas-phase formation of adenine and guanine	15	20:40-20:55	15:10-15:25	16:10-16:25	09:10-09:25	00:10-00:25
	Venkata Lakshmi	Theoretical and observational study of PAHs up to ten hexagon rings	12	20:55-21:07	15:25-15:37	16:25-16:37	09:25-09:37	00:25-00:37
Closing remarks : Prof. Nigel Mason								

Talk Duration (min)
25 22 minutes + 3 minutes (QA)
20 17 minutes + 3 minutes (QA)
15 13 minutes + 2 minutes (QA)
12 10 minutes + 2 minutes (QA)